

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
28 April 2005 (28.04.2005)

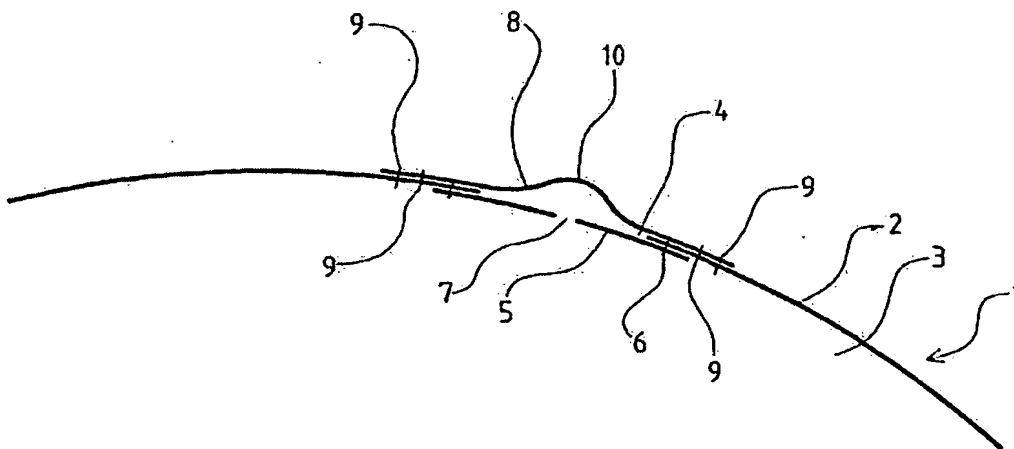
PCT

(10) International Publication Number
WO 2005/037613 A1

- (51) International Patent Classification⁷: **B60R 21/16**, 21/28
- (74) Agent: **MEULLER, Erik**; Autoliv Development AB, S-447 83 Värghärda (SE).
- (21) International Application Number: **PCT/SE2004/001470**
- (22) International Filing Date: 14 October 2004 (14.10.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
0324291.4 16 October 2003 (16.10.2003) GB
- (71) Applicant (for all designated States except US): **AUTOLIV DEVELOPMENT AB** [SE/SE]; S-447 83 Värghärda (SE).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **BRADBURN, Alan** [GB/GB]; 23 The Moat, Weston Coyney, Stoke on Trent, Staffordshire ST3 6NB (GB).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NI, SN, TD, TG).

[Continued on next page]

(54) Title: IMPROVEMENTS IN OR RELATING TO AN INFLATABLE AIR-BAG



(57) Abstract: An inflatable air-bag (1) is disclosed which defines an inflatable chamber (3). The air-bag comprises an inner elastic membrane (5) provided in the peripheral wall of the air-bag, there being a vent-hole (7) formed through the elastic membrane (5). An outer membrane (8) is provided on the outside of the air-bag which extends across at least part of the inner membrane (5) and the vent-hole (7). The outer membrane defines a pucker (10) over the inner membrane and the vent-hole (7). The pucker (10) is open so as to define an outlet flow path from the vent-hole (7) when the inner membrane (5) is spaced from the pucker (10). The inner membrane (5) is configured to stretch and seal against the pucker (10) around the vent-hole (7) when the internal pressure within the inflatable chamber (3) exceeds a predetermined value.

WO 2005/037613 A1



Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.